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... In retrospect, the competing political philosophies of secrecy v. scientific **openness** provide us with important ... during the pre-Apollo lunar explorations of the 1960s, and to some **degree** it still ... areas of "higgledy-piggledy" hills were imaged; they came to be called chaotic **terrain**. ...

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... 80) is mapped onto a two-dimensional plane (90), and gray-scale display (F) corresponding to the **degree** of elevation/**depression** is conducted ... mapper, the **terrain** is lattice-like divided, having altitude values given thereto, to provide a DEM (Digital **Elevation** Model) data. ...

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... 179 Table 1a **Topographic**, morphometric, and climatic data for selected erosion depressions in volcanic terrains around the world, with regio ... Cessation (youngest age) of volcanism **Depression** diameter (m) ... Station **elevation** (m) Annual temperature (°C) Annual rainfall (mm) ...

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M Aurand · 2006 · books.google.com

... Within the local Appalachian Plateau, "all the hills and stream di- vides rise to about the same **elevation**, the sky ... Point and Grant's Hill suggested a physical axis that would link them in the new civic **topography** as they were already linked in the cosmo- logical **terrain** and in ...

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... axis or other 27 linear structure, plunge in **degrees** inclined cleavage, dip in **degrees** -f- horizontal ... The plunge fully expresses the **three-dimensional** orientation of a line and has two parts: (a ... This is usually done by stating, with a number, the **elevation** of individual points such as ...

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FD Hole, JB Campbell - 1965 - books.google.com

... 75 4.25 Soil Cover Pattern Illustrating **Openness**. ... The relief is 12 meters (40 ft), between **elevations** of 200 and 212 meters (665-705 ft), on the Door Peninsula. ... on a map, are impure as the result of inclusion of patches of other kinds of soil, and (2) the **degree** of definiteness of ...

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A Bahamón, P Pérez, A Campello - 2008 - books.google.com

... Within the plant kingdom, life is organized with a maximum **degree** of logic and efficiency, and ... in allusion to the **terrain** on which it is located. ... Rear **Elevation** Transverse Section 1 - Waterproof Exterior Wall - - Fireproof Exterior Wall , - Reinforcing Beam 4- Entrance Mezzanine 5 ...

DECISION MAKING BASED ON EARTH OBSERVATION TECHNOLOGY

J Zhang, Y Zeng, W Xie, T Wang - Geospatial Technology for Earth ..., 2009 - Springer

... slope of landslide is flatter than surrounding mountainous ar- eas, whereas some of landslide could be plane or **depression**. ... Digital **elevation** model (DEM) presents **terrain** relief. ... 3) Data exchanging based on function level can ensure **openness** of an in- formation system. ...

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R Lanari, P Lundgren, E ... - Geophysical Research ... 1998 - trs-new.jpl.nasa.gov

... This DEM has a 25 m posting, with a height uncertainty of 5-10 m. The resulting differential interferograms are related to the **volcano** surface ... All the **image** pairs selected for this study have a perpendicular ... For a baseline of 80 m this **topographic** error would be less than 2.4 ...

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Topographic analyses of K¹ lauea Volcano, Hawai'i, from interferometric airborne ...

SK Rowland, ME MacKay, H Garbeil, PJ Mougins- ... - Bulletin of ... 1999 - Springer

... 1994a) hold the promise of producing detailed **topographic** maps over large areas of the world ... Be- cause these techniques determine an elevation at each picture element (pixel) in a ... Garbeil 1993), and the slopes and lava flow volumes on Galápagos **volcanoes** (Rowland 1996 ...

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Ring formation in evaporating porphyrin derivative solutions

L Lafterini, R Blosssey, J Hofkens, P Vanoppen, FC De ... - Langmuir, 1999 - pubs.acs.org

... Figure 4 **Topographic image** acquired by AFM on a PtP sample on glass deposited in the presence of a saturated CHCl₃ atmosphere. The scale bar below the **image** represents 10 µm.**Volcano**-like structures are connected by straight lines as a guide to the eye, indicating their ...

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NASA EOS Terra ASTER: Volcanic topographic mapping and capability

NF Stevens, H Garbeil, PJ Mougins-Mark - Remote Sensing of ... 2004 - Elsevier

... for generating up-to-date land cover maps, using standard **image** classification techniques. This is an important observational capability, especially at active **volcanoes** where land ... a powerful observational tool before, during and after significant volcanic **topographic** and surface ...

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[PDF] Accuracy of topographic maps derived from ERS-1 interferometric radar

HA Zebker, CL Werner, PA Rosen, S ... - IEEE Transactions on ... 1994 - Citeseer

... the **image** or some other technique to produce useful **topographic** maps. ... We have produced several **topographic** maps from ERS-1 observations and have used Interfer- ... Katmai, Toolik Lake, and Manley Hot Springs sites in mainland Alaska and of Shishaldin **volcano** in the ...

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ER Stofan, SE Smrekar, DL ... - Journal of ... 1995 - trs-new.jpl.nasa.gov

... rift-dominated rises, with Beta Regio lying 2.1 km above the surrounding plains and Atla Regio at 2.5 km above the surrounding plains (Table 1). The **volcano**- dominated and ... This was done using both **topographic** profile and using altimetry data displayed in **image** form. ...

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[PDF] Aseismic inflation of Westdahl volcano, Alaska, revealed by satellite radar ...

Z Lu, C Wicks, D Dzurisin, W Thatcher, J ... - Geophys. Res. ... 2000 - geo-explorer.net

... for several periods are shown in Figure 2. In each case, the **topographic** contribution to ... The red dot at **image** center represents location of the best fitting source. ... 1570 LU ET AL.: SAR INTERFEROMETRY OF WESTDAHL VOLCANO Using this assumption, we compared the 1993 ...

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[PDF] ... aperture radar interferometry of Okmok **volcano**, Alaska- Radar observations
Z Lu, D Mann, JT Freymueller, DJ ... - Journal of Geophysical ... 2000 - volcanoes.usgs.gov
... corresponds to $h_a = 115$ m. There is not much vegetation on the **volcano** surface; therefore it ... Each
cycle of colors represents **topographic** relief of ~ 5 m. The interferometric correlation ... average
is larger than 0.9, which indicates excellent coherence over almost the entire **image**. ...
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[PDF] Subsidence at Kiska **volcano**, western Aleutians, detected by satellite radar ...
Z Lu, T Masterlark, J Power, D ... - Geophysical ... 2002 - no-proxy-wr-volcanoes.usgs.gov. ...
... 2. InSAR Deformation [4] The number of ERS-1 and ERS-2 SAR **images** of Kiska **volcano** is limited
by scant requests for data acquisitions ... The Kiska DEM was resampled into 20-m pixel spacing
to match the SAR **image** resolution for removal of **topographic** contributions in ...
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... episode in the Eyjafjallajökull **volcano**, Iceland, derived from InSAR **images**
R Pedersen, F Sigmundsson - Bulletin of Volcanology, 2006 - Springer
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Y Tamura, Y Tatsumi, D Zhao, Y Kido, H ... - Earth and Planetary ... , 2002 - Elsevier

... In this report, we develop the proposition that **volcano** distribution patterns, coupled with **topographic** profiles, seismic tomography and Bouguer gravity, can provide a new **three-dimensional** genetic understanding of **volcanoes** along the Northeast Japan arc. ...

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... **Topographic** map (right) of the Somma-Vesuvius region showing the Tomoves 1994 (line S) and 1996 (lines AD ... The 2-D Tomoves velocity sections present a fairly complete **image** of the velocity structure of the volcanic edifice and surrounding **volcano**-sedimentary deposits. ...

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... in correlation properties the Toolik data, implying that **topographic** models derived from the data will be ... a few outcrops on the **volcano** itself and the immediate beach area exhibit sucent correlation to ... earth with radius equal to the geodetic radius at the center of the **image** for our ...

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... equations and smoothing constraints to control the degree of model roughness in the derived **images**. ... suited for the study of volcanic regions, which typically have large **topographic** relief and ... DATAAND ANALYSIS Kilauea **volcano** was one of the earliest targets in studies of the ...

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... The resulting picture reveals such features as: (1) a circular caldera within the basement, the ... 3-D prospecting of the Mont Dore **volcano** 309 IS 5KM Figure 3. Two examples of ... Preliminary maps of residuals with respect to a reflection hyperbola and **topographical** correction show ...

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G De Luca, L Filippi, G Patane, R Scarpa, S ... - Journal of Volcanology ... , 1997 - Elsevier

... Etna and for its **topographical** variations. ... The 3D velocity **image** of the **volcano** we resolve has the following properties: The velocity structure beneath the central craters is characterized by relatively high Vp velocities corresponding to a dense intrusive core. ...

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... Figure 5 AFM **topographic images** acquired on a PtP sample prepared in the presence of a saturated ... Figure 7 Transmission **images** acquired during in situ preparation of a PtP film on glass ... in the droplet positions after coalescence or from a distortion of the **volcano** lattice due to ...

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